

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Attorney Docket Number	6454-66999-01
Application Number	10/671,750
Filing Date	September 26, 2003
First Named Inventor	Bowie G. Keefer
Art Unit	1745
Examiner Name	To be assigned

U.S. PATENT DOCUMENTS

Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee
	AM	3,847,672	November 1974	Trocciola et al.
		3,865,924	February 1975	Gidaspow et al.
		4,532,192	July 1985	Baker et al.
		4,555,453	November 1985	Appleby
		4,595,642	June 1986	Nakanishi et al.
		4,759,997	July 1988	Ohyauchi et al.
		4,781,735	November 1988	Tagawa
		4,801,308	January 1989	Keefer
		4,816,121	March 1989	Keefer
		4,969,935	November 1990	Hay
		4,988,580	January 1991	Ohsaki et al.
		4,994,331	February 1991	Cohen
		5,068,159	November 1991	Kinoshita
		5,175,061	December 1992	Hildebrandt et al.
		5,245,110	September 1993	Van Dijk et al.
		5,328,503	July 1994	Kumar
	AM	5,366,818	November 1994	Wilkinson et al.

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AM		5,411,578	May 1995	Watson
		5,434,016	July 1995	Benz et al.
		5,523,326	June 1996	Dandekar et al.
		5,543,238	August 1996	Strasser
		5,604,047	February 1997	Bellows et al.
		5,645,950	July 1997	Benz et al.
		5,711,926	January 1998	Knaebel
		5,714,276	February 1998	Okamoto
		5,811,201	September 1998	Skowronski
		5,900,329	May 1999	Reiter et al.
		5,917,136	June 1999	Gaffney et al.
		5,980,857	November 1999	Kapoor et al.
		6,045,933	April 2000	Okamoto
		6,056,804	May 2000	Keefer et al.
		6,176,897	January 2001	Keefer
		6,190,623	February 2001	Sanger et al.
AM		6,190,791	February 2001	Hornburg

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AM		6,283,723	September 2001	Milburn et al.
		6,312,843	November 2001	Kimbara et al.
		6,358,300	March 2002	Fornof et al.
AM		6,667,128	December 2003	Edlund

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AM		Canada	1,256,038	June 1989	
		Canada	2,016,045	August 1994	
		Canada	2,087,972	January 2000	
		Canada	2,087,973	January 2000	
		Canada	2,109,055	February 2000	
		Europe	EP 0 143 537 A2	June 1985	
		Europe	EP 0 341 189 A1	August 1989	
		Europe	EP 0 143 537 B1	March 1990	
AM		Europe	EP 0 681 860 A2	July 1996	

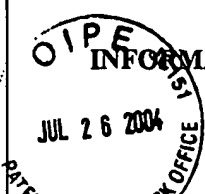
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Examiner's Initials*	Cite No. (optional)	Country	Number	Publication Date	Name of Applicant or Patentee
AM		Europe	EP 0 691 701 A1	October 1996	
		Europe	EP 1 070 531 A2	January 2001	
		Germany	DE 3913581 A1	November 1990	
		Japan (Abstract)	JP 62 278770	March 1987	
		Japan (Abstract)	JP 63 166137	November 1987	
		Japan (English Translation)	JP 63 228572 A	September 1988	
		Japan (English Translation)	JP 04206161 A	July 1992	
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		Japan (Abstract)	JP 07 094200	July 1995	
		Japan (Abstract)	JP 80 45526 A2	February 1996	
		Japan (Abstract)	JP 10 027621 A	January 1998	
		Japan (Abstract)	JP 11 214021 A2	August 1999	
		WIPO/PCT	WO 96/13871	May 1996	
		WIPO/PCT	WO 99/01202	January 1999	
		WIPO/PCT	WO 99/19249	April 1999	
↓		WIPO/PCT	WO 99/46032	September 1999	
AM		WIPO/PCT	WO 00/76630	December 2000	
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Examiner's Initials*	Cite No. (optional)	Country	Number	Publication Date	Name of Applicant or Patentee
AM		WIPO/PCT	WO 01/47050	June 2001	
AM		WIPO/PCT	WO 02/45821	June 2002	
Examiner's Initials*	Cite No. (optional)	OTHER DOCUMENTS			
AM		Carvill et al., <i>AIChE J.</i> 42(10):2765-2772, 1996			
		Chatsiriwech et al., <i>Catalysis Today</i> 20:351-366, 1994			
		Ding et al., <i>Chemical Engineering Science</i> 55:3461-3474, 2000			
		Ding et al., <i>Chemical Engineering Science</i> 55:3929-3940, 2000			
		Hufton et al., <i>AIChE J.</i> 45(2):248-256, 1999			
		Iyuke et al., <i>Chemical Engineering Science</i> 55:4745-4755, 2000			
		Vaporciyan and Kadiec, <i>AIChE J.</i> 35:831-844, 1989			
↓		International Search Report from International Application No. PCT/CA99/00823			
AM		International Search Report from International Application No. PCT/CA02/00368			

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AM		2001/047824	December 2001	Hill et al.
		2002/0004157	January 2002	Keefer et al.
		2002/0098394	July 2002	Keefer et al.
		2002/0104518	August 2002	Keefer et al.
		2002-0110503	August 2002	Gittleman et al.
		2002/0110504	August 2002	Gittleman et al.
		2002-0112479	August 2002	Keefer et al.
		2002/0127442	September 2002	Connor et al.
		2002/0142198	October 2002	Towler et al.
		2002-0142208	October 2002	Keefer et al.
		2002/0143448	July 2003	Keefer
		2003-0157390	August 2003	Keefer et al.
		2004-0005492	January 2004	Keefer et al.
		3,094,569	June 1963	Thomas
		3,204,388	September 1965	Asker
		3,430,418	March 1969	Wagner
		3,513,631	May 1970	Siebert et al.
AM		3,564,816	December 1968	Batta

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AM		3,594,984	July 1971	Toyama et al.
		4,019,879	April 1977	Rabo et al.
		4,144,037	March 1979	Armond et al.
		4,153,434	May 1979	Settlemyer
		4,200,682	April 1980	Sederquist
		4,272,265	June 1981	Snyder
		4,322,394	March 1982	Mezey et al.
		4,354,859	October 1982	Keller et al.
		4,406,675	September 1983	Dangieri et al.
		4,452,612	June 1984	Mattia
		4,530,705	July 1985	Firey
		4,553,981	November 1995	Fuderer
		4,578,214	March 1986	Jungerhans
		4,587,114	May 1986	Hirai et al.
		4,696,682	September 1987	Hirai et al.
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↓		4,726,816	February 1988	Fuderer
AM		4,743,276	May 1988	Nishida et al.

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AM		4,758,253	July 1988	Davidson et al.	
↑		4,783,433	November 1988	Tajima et al.	
		4,790,858	December 1988	Sircar	
		4,914,076	April 1990	Tsuji et al.	
		4,917,711	April 1990	Xie et al.	
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		5,079,103	January 1992	Schramm	
		5,082,473	January 1992	Keefer	
		5,096,469	March 1992	Keefer	
		5,096,470	March 1992	Krishnamurthy	
		5,126,310	June 1992	Golden et al.	
		5,133,784	July 1992	Boudet et al.	
		5,147,735	September 1992	Ippommatsu et al.	
		5,217,916	December 1993	Vanderborgh et al.	
		5,227,598	July 1993	Woodmansee et al.	
		5,246,676	September 1993	Hay	
AM		5,248,325	September 1993	Kagimoto et al.	
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		5,258,571	November 1993	Golden et al.
		5,271,916	December 1993	Vandenborgh et al.
		5,282,886	February 1994	Kabayashi et al.
		5,360,679	November 1994	Buswell et al.
		5,393,326	February 1995	Engler et al.
		5,415,748	May 1995	Emiliani et al.
		5,429,665	July 1995	Botich
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		5,441,559	August 1995	Petit et al.
		5,487,775	January 1996	LaCava et al.
		5,509,956	April 1996	Opperman et al.
		5,529,763	June 1996	Peng et al.
		5,529,970	June 1996	Peng
		5,531,809	July 1996	Golden et al.
↓		5,593,478	July 1997	Hill et al.
AM		5,632,807	May 1997	Tomita et al.

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		5,656,067	August 1997	Watson et al.
		5,658,370	August 1997	Vigor et al.
		5,766,311	June 1998	Ackley et al.
		5,827,358	October 1998	Kulish et al.
		5,876,486	March 1999	Steinwandel et al.
		5,891,217	April 1999	Lemcoff et al.
		5,925,322	July 1999	Werth
		5,955,039	September 1999	Dowdy
		5,958,109	September 1999	Fuderer
		5,968,680	October 1999	Wolfe et al.
		5,981,096	November 1999	Hornberg et al.
		5,998,056	December 1999	Divisek et al.
		6,022,399	February 2000	Ertl et al.
		6,051,050	April 2000	Keefer et al.
		6,060,032	May 2000	Hable et al.
↓		6,063,161	May 2000	Keefer et al.
AM		6,077,620	June 2000	Pettit

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		6,143,057	November 2000	Bulow et al.
		6,162,558	December 2000	Borup et al.
		6,200,365	January 2001	Eimer et al.
		6,210,822	March 2001	Abersfelder et al.
		6,231,644	May 2001	Jain et al.
		6,255,010	July 2001	George et al.
		6,293,998	September 2001	Dolan et al.
		6,296,823	October 2001	Ertl et al.
		6,398,853	April 2002	Keefer et al.
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		6,428,915	August 2002	Ban et al.
		6,517,609	February 2003	Monereau et al.
		6,607,854	August 2003	Rehg et al.
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		Europe	EP 0 737 648 A	October 1996	Air Products & Chemicals, Inc.
		Europe	EP 0 750 361 A	December 1996	Exxon Research and Engineering Company
		Europe (abstract)	EP 0 751 045	January 1997	Daimler Benz AG (DE)
		Europe	EP 0 853 967	July 1998	The BOC Group, Inc.
		Europe (abstract)	EP 1 095 689 A1	October 1999	Air Liquide
		Europe	EP 1 172 772	January 2001	Azkoyen Medios de Pago, S.A.
		Britain	GB 2 042 365	September 1980	BOC Limited
		Japan (Abstract)	JP 10325360 A	December 1998	Yoshio Kurosawa
		Japan (Abstract)	JP 5166528 A	October 1993	Mitsubishi Electric Corp.
		Japan (Abstract)	JP 59075574 A	April 1984	Nippon Kihatsuyu KK
		Japan (Abstract)	JP 62274561	November 1978	Mitsubishi Heavy Ind. Ltd.
		Japan	JP 62278770	December 1987	Nippon Kokan Co.
		Japan (Abstract)	JP 63034862	February 1998	Mitsubishi Electric Corp.
		Japan (Abstract)	JP 63166157	July 1988	Tokyo Tungsten KK
		WIPO/PCT (abstract)	WO 94/04249	August 1992	Jacques Ribesse
✓		WIPO/PCT	WO 98/29182	September 1998	Bowie Keefer
AM		WIPO/PCT	WO 99/28013	June 1999	Questor Industries, Inc.

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		WIPO/PCT	WO 00/16880	March 2000	ALLIEDSIGNAL Inc.
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		WIPO/PCT	WO 02/37590	May 2002	QuestAir Technologies, Inc.
		WIPO/PCT	WO 02/47797	June 2002	QuestAir Technologies, Inc.
		WIPO/PCT	WO 02/56400	July 2002	QuestAir Technologies, Inc.
AM		WIPO/PCT	WO 2004/030130	April 2004	QuestAir Technologies, Inc.

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